BRUHAT BANGALORE MHANAGARA PALIKE

Detailed Estimate for :- Improvements to park at Lakkappa Layout near Singapura Village in Ward No.11

Est Cost is Rs 2700000.00

Sl. No	Description of work	No	Dimensions L	B	D	qty	Rate	Unit	Amount
	KRIDL Charges 10%								270000.00
	Labour cess 1%								27000.00
1	KSRB 2-2.1 : Earthwork in surface excavation in oridinary soil for leveling and lowering he ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavted surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. - do - in hard soil. specification. No. KBS 2.1 (a) /2.3.1 (P-5, I-2.2 PWDSR 13-14)								
		1	80.00	60.00	0.30	1440.00			
	Platform to benches	6	4.50	0.30	0.30	2.43			
	kerb stone	2	10.00	0.30	0.30	1.80			
		2	10.00	0.30	0.30	1.80			
	Pathway	2	10.00	2.00	0.30	12.00			
						1458.03	173.84	Cum	253,464.00
	Basic rate	164.00							
	Add 6% AW	9.84							
	Total Rate	173.84							
2	Earth work excavation for foundation of building, water supply, sanitary lines and electrical conditions either in pits or in trenches 1.5m and above in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the escavated soil clean from edges of excavation with lead upto 50m after breaking of complete as per specifications (KSB 2.1) (b) 2.3.5, P-5, 1-2.4)								
	Chain link	1	10.70	0.75	0.75	6.02			
						6.02	223.66	Cum	1,346.00
	Basic rate	211.00							
	Add 6% AW	12.66							
	Total Rate	223.66							
3	Lead for Disposal of Debris/earth shall be payable at garage rates by Mechanical means including loading and unloading from 14Kms to 15Kms (P.No.124.I.No.63)								
	Qty item no. 1 & 2					1464.05			
						1465.67	107.27	Cum	157,225.00
	Loading and unloading I.No.17.1	62.20							
	for Haulage(surface road Rs. 2.0 T/Km)								
	(density of debris 1.30								
	for 15kms =15x2x1.30	39.00							
	Basic rate	101.20							
	Add 6% AW	6.07							
	Total Rate	107.27							

Sl. No	Description of work	No	Dimensions L	B	D	qty	Rate	Unit	Amount
4	Providing and laying in positionp lain cement concrete of Mix M 7.5 with OPC cement @ 180 kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour HOM of machinery curing complete as per specification, specification No. KBS 4, 1, 4.2 (PageNo.12, Item No.4.3 PWD S.R. 13-14)								
	Compound wall - chain link	1	10.70	0.75	0.15	1.20			
					Total	**1.20**	4211.38	cum	5,069.00
	Basic rate	3973.00							
	Add 6% AW	238.38							
	Total Rate	4211.38							
5	Providing and constructing granite / trap / baalt size stone masonry in foundation cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m apart in each course including cost of materials, labour, curing complete as per specifications (P. 25 I.No. 5.6)								
	Compound wall	1	10.75	0.60	0.60	3.87			
					Total	**3.87**	3484.22	cum	13,484.00
	Basic rate	3287.00							
	Add 6% AW	197.22							
	Total Rate	3484.22							
6	Providing and constructing granite / trap / baalt size stone masonry in basement with cement cement mortar 1:6, edges of stones dhistele dressed in courses not less than 15 cms high, bond stones at two m apart in each course including cost of materials, labour, curing complet (P. 26 I. No. 5.9)								
	Compound wall	1	10.70	0.45	0.40	1.93			
		1	8.20	0.45	0.20	0.74			
		1	9.20	0.45	0.20	0.83			
					Total	**3.49**	4148.84	cum	14,488.00
	Basic rate	3914.00							
	Add 6% AW	234.84							
	Total Rate	4148.84							
7	Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P. 122, I. No. 15.3)								
	Compound wall	2	10.70		0.40	8.56			
						8.56	78.44	sqm	671.00
	Basic rate	74.00							
	Add 6% AW	4.44							
	Total Rate	78.44							

Sl. No	Description of work	No	Dimensions			qty	Rate	Unit	Amount
			L	B	D				
8	Providing and laying in positionp lain cement concrete of Mix M20 with OPC Cement @ 300 kgs, with 20 mm and down size graded granite metal coarse aggregates @ 0.64 cum and fine aggregates @ 0.43 cum with super plasticizer at 3 mtrs confirming to IS 9103 / 1999 Reaffirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour HOM of machinery curing complete as per specification, specification No. KBS 4, 1, 4.2 (PageNo.12, Item No.4.5)								
	Compound wall	1	10.70	0.45	0.10	0.48			
	Fixing of poles	20	0.45	0.45	0.45	1.82			
	coping	1	8.20	0.45	0.10	0.37			
		1	9.20	0.45	0.10	0.41			
	Fixing of gate	2	0.45	0.45	0.45	0.18			
					Total	**3.27**	5224.74	cmtr	17,081.00
	Basic rate	4929.00							
	Add 6% AW	295.74							
	Total Rate	5224.74							
9	Supply and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 Nos 16mm dia M.S. hold fast rods each of length 25cms. Including cost of all materials cutting, bending scaffoldign wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of ht eEngineerin in charge of he work and including providing 2 coats of approved uqality paint over one coat of shop painting (excluding cost of earthwork and concrete)								
		20			2.50	50.00			
						50.00	1078.02	mtrs	53,901.00
	Basic Rate	1017.00							
	Area weightage @ 6%	61.02							
	Total	1078.02							
10	Providing and fixing M.S. block pipe of 38 mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe between the two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. blok pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer in charge of work etc., complete including two coats of approved quality paint over one coat of shop paint (Item No.37.4 Page No.270)								
	Compound wall	3	10.70			32.10			
	Missing & damaged	10	2.00			20.00			
		8	2.00			16.00			
	at pedestain bridge	3	2.50			7.50			
		3	2.00			6.00			
		1	2.00			2.00			
		3	4.00			12.00			
		1	1.20			1.20			
		3	8.20			24.60			
		2	1.90			3.80			
		3	3.90			11.70			

Sl. No	Description of work	No	Dimensions			qty	Rate	Unit	Amount
			L	B	D				
		3	3.70			11.10			
		3	1.70			5.10			
		3	2.10			6.30			
						159.40	293.62	mtrs	46,803.00
	Basic rate	277.00							
	Add 6% AW	16.62							
	Total Rate	293.62							
11	Providing chain link fencing 50mm sie of 8 guage propely stretched between rectangular poles and fixed with suitable bolts and nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, colour, lead and lifta and as per the directions of the Egineer -in-charge two coats of approved quality paint over one coat of shop paint (Page No.270, I. No. 37.3)								
	Compound wall	1	10.70		1.50	16.05			
	Missing & damaged	5	2.00		1.50	15.00			
		5	2.00		1.50	15.00			
		1	4.00		2.00	8.00			
		1	8.20		2.00	16.40			
		1	3.90		2.00	7.80			
		1	3.70		2.00	7.40			
		1	1.70		2.00	3.40			
		1	2.10		2.00	4.20			
						93.25	644.48	sqm	60,098.00
	Basic rate	608.00							
	Add 6% AW	36.48							
	Total Rate	644.48							
12	Providing, fabricating and fixing Special Multiplay Systems consists of FRP moulded with Aluminium chequered Platforms of size 5'x5' ft with 4 support piller madeour of 75mm dia G.I. 'B' pipes fixed in cement concrete 1:2:4. The platforms are to be covered with pyramid shapes FRP roof. the platform is to be with tubular Slide & Mini Aquva tunnel slide made up of high quality FRP the slide is to fixed at a height of11 ft and runs for a lenth of not less than twenty ft and the slide should be supported at regular intervals of 6 ft using M.S. pipes support and the platform ladder with 25mm dia MS pipes with suitable hand rails and steps made out of GI sheet with tred 4" with powder coated finish, find quality ERP with suitable design and as per drawing Moulded FRP slides are non-corrossive, fade free, tough grade, durable hard and should prevent UV light. The work should be executed as per the standard specifications and directions of the engineer in charge of the with all lead and lift, loading and unloading and any incidental charges required for the successful completion of the work (All FRP items are gelwater finish or stoving paint in ovens) (Data Rate)								
						2	595000.00	set	1,190,000.00

Sl. No	Description of work	No	Dimensions			qty	Rate	Unit	Amount
			L	B	D				
13	Providing and fixing M.S Gate as per Cheaf Architect Drawing using 50mmX50mm 14 guage M.S hollow pipe frame work bent to ornamental shape as shape as shown in the drawing and 35mmX6mm and 16X16mm squre roads for verticals alternatively spaced at 4cms c/c in two halves and 40mmX6mm M.S flats for horizontal member and at at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of of rust and painted with anti corrosive paint (shop paint) etc., complete the work includes cost of all materials, labour charges for all item of work, hire charges of welding, cutting and grainding equipment, and electricity charges, with lead and lift loading and lunloading charges. etc., complete as per specification and drawing Page No.47/ I No. 7.37/ PWD SR 2013-14								
	Gate	1	3.00		1.80	5.40			
		1	1.50		1.80	2.70			
					Total	**8.10**	3343.68	Sqm	27,084.00
	Basic rate	3096.00							
	Add 6% AW	247.68							
	Total Rate	**3343.68**							
14	Providing and fixing precast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete -do- size 450 x150 x 500mm P.28 I.No.5.29.2								
		2	10.00			20.00			
	Missing & damaged	4	10.00			40.00			
						60.00			
	1kerb=0.45 mt					**133.00**	299.98	Nos	39,897.00
	Basic rate	283.00							
	Add 6% AW	16.98							
	Total Rate	299.98							
15	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kgs per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand undermeath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specification (P.110 I. No.14.6)								
	Pathway	1	10.00	2.00		20.00			
	Missing & damaged	2	10.00	2.00		40.00			
						60.00	833.16	sqm	49,990.00
	Basic rate	786.00							
	Add 6% AW	47.16							
	Total Rate	833.16							
16	KSRB 15-14: Providing and constructing precast concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S. : 2185/1965 in superstructure including cost of materials, labour charges, scaffolding curing complete as per specifications P.27 I.No.5.27.1								
	Flatform to benches	10	4.50		0.40	18.00			
						18.00	924.48	Sqm	16,641.00

Sl. No	Description of work	No	Dimensions			qty	Rate	Unit	Amount
			L	B	D				
	Basic rate	856.00							
	Add 6% AW	68.48							
	Total Rate	924.48							
17	KSRB 15-3-13: Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners whever required smooth rendering, : Providing and removing scaffoliding, including cost of materials, labour, curing complete as per specifications. (P-119, I-15.9 PWDSR 13-14)								
	Platform	10	4.50		0.40	18.00			
						18.00	156.60	Sqm	2,819.00
	Basic rate	145.00							
	Add 6% AW	11.60							
	Total Rate	156.60							
18	Fabricating, supplying and erecting M.S.Tubular Trusses of all spans as per approved drawing & design with prefabricated steel applications using quality material and are durable, reliable and corrosion and abrasion resistant. Welding shall confirm to latest strucutral welding code. Quality shall be on various parameters like shape, size, design guage and polish. The entire trusses is anchored in RCC column byusing 4 Nos of M.S. anchor bolts at each support with 10mm thick base plate and ahoe plate. The work includes cutting, straighening, placing in position of M.S pipes and welding wherever necessary and applying one coat of redoxide primer coat to all the members including cost of all materials, labour charges and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift transportation etc., complete as per specification P.No.45 I.No.7.29)								
	for walking path way over SWD								
	Purlin 65x65x6 mm angle for pedestain bridge	4	5.45	5.80		126.44			
	top 65x65x6mm	8	2.75	5.80		127.60			
	Centre	16	2.25	5.80		208.80			
		20	0.45	5.80		52.20			
	entrance	4	2.15	5.80		49.88			
	50x50mm equal angle	8	0.30	4.50		10.80			
		8	0.20	4.50		7.20			
	25x25mm square tube	24	0.50	3.01		36.12			
	32mm dia pipe	2	5.45	3.10		33.79			
	vertical	4	0.40	3.01		4.82			
		4	0.20	3.01		2.41			
	25x6mm flat centrer flat	6	5.40	1.57		50.87			
	top walk way 25x6mm flat	171	2.10	1.57		563.79			
						1274.71	143.64	kgs	183,099.00
	Basic rate	133.00							
	Add 6% AW	10.64							
	Total Rate	**143.64**							

Sl. No	Description of work	No	Dimensions L	B	D	qty	Rate	Unit	Amount
19	2-Seater Swing : This Swing consists of 2 Nos, seat sof solid fibbed FP of size 480 mm x 180 mm x 3.5 mm supported by MS chains (*heavy) length 1.8 mtrs, each seat is suspended by 2 lines of chains. The chains are supported by circular housing with bearing from which the chain in suspended. The main beam is of 50mm MS 'a' class pipe. Size of MS chain 30mm x 20mm x 5mm thick, The 2 Nos inverted 'V' beams are of 50mm 'A' Class pipes secured at the top the main beam by means of CI castings. (Heavy duty for elders) All pipes are of ISI grade. All the pipes are painted with two coats of super set paint over a coat of protective Zinc chromate yellow oxide.(Data Rate)								
		2				2.00	46000	set	92,000.00
20	Providing Children Play Standrd Sea Saw Seater Equipment : This euqipment is made up of main beam 50mm MS pipe 'A' class of length .98 mtr. With two handles welded at the ends as a hand are made of 20mm 'A' class pipe. The main beam is pivoted to the bottom supports of 40mm MS pipes by bush bearing clamped by pivot joints which swivel over 28mm dia steel shaft, which gets installed in the ground by means of cocrete, 2 Nos. seats are made of 250 mm x 200 mm x 18 SWG MS sheets with T hand rest at the front. Air pipes are of ISI grade. All the pipes are painted with two coats of super set paint over a coat of protective Zinc chromate yellow oxide including fixing the play equipments in CC 1:2;4, curing etc., complete (Data Rate)								
		1				1.00			
						1.00	28000.00	No.	28,000.00
21	Providing and fixing of 25mm thick cement base precast, pre-polished cement concrete tiles containing fibrilated polypraylene fibre as admixture laid on 12 cms thick cement sand bed of 1:3 mix joined with Oxide cement slurry mixed pigment to match the shade of tiles including cost of all material and labour & material having compressive strength of not less than within 350/kg/cm2 flrxuaral strength of material shall not be less than 30/kg/cm2 and water obsorption of less than 10% (Data Rate)								
	benches	6	2.10	1.20		15.12			
					Total	**15.12**	1120.00	sqmt	16,934.00
22	Providing and spreading sand to children's park as per the directions of the Engineer in charge.(P.No.II,I.No.54)								
		1	15.00	12.00	0.30	54.00			
					Total	**54.00**	1300.00	Cum	70,200.00
23	Providing and fixign ornamental Delhi benches as per design, drawing, specification and as per the direction of Engineer incharge of work. (Data Rate)								
		6			Total	6.00	8500.00	Nos	51,000.00

Sl. No	Description of work	No	Dimensions			qty	Rate	Unit	Amount
			L	B	D				
24	Providing and fixing dust bins as per designs, drawing specification and direction of Engineer in charge of works (Data Rate)								
		1			Total	1.00	4800.00	Nos	4,800.00
								Miscellaneous	6906.00
								GRAND TOTAL Rs.	2700000.00

1 The Work spot has been inspected and work is necessary.
2 The Estimation based on the SR 2013-14
3 The Work spot comes under B B M P Limit
4 Provision in the estimate are essential and minimum.

Assistant / Junior Engineer
Project Sub Division, Yelahanka Zone,
BBMP, Bangalore-92

Assistant Executive Engineer
Project Sub Division, Yelahanka Zone,
BBMP, Bangalore-92

Executive Engineer
Project Division, Yelahanka Zone
BBMP, Bangalore-92

ADMINISTRATIVELY SANCTIONED FOR Rs. 27.00 lakhs
Rupees Twenty Sevens lakhs
Under
Registered as EE ( ) No 3 9
Subject to conditions contained in enclosed memo EE ( ) No /9/...
Dt Estimate A/S sanctioned
Addl Comm (Y) No AS/865/13-14
dated 13-2-2014 Rs 27.00 lakhs

Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92

Technical Sanction for Rs. 27 lakhs
(Rs Twenty seven lakhs only)
is accorded under head P0088
registered as CE No. CETS/285/14-15 Subject
to Conditions contained in enclosed memo
No. 285/14-15 Dr. 17.02.14

AE/JE TA SE (BTP) CE (BTP)